

Contents

<i>Foreword by Prof (Dr) Mahdi Hasan</i>	<i>vii</i>
<i>Preface to the Third Edition</i>	<i>ix</i>
<i>Preface to the First Edition</i>	<i>xi</i>

Part 1

Techniques in Histology

1. Overview of Histology and Approaches to its Study	3
2. Some Basic Things to Know	17
3. Grossing of Specimens and Fixation of Biological Samples	35
4. Decalcification of Bone Samples	49
5. Dehydration and Clearing	60
6. Impregnation (or Infiltration) and Embedding of Biological Samples	67
7. Paraffin Waxes and Paraffin Block Making	74
8. Microtomes and Microtome Knives	81
9. Microtomy: Technique of Sectioning	103
10. Stains and Staining	125
11. Special Staining of Tissue Sections and Preparation of Blood Film	141
12. Mounting, Covering, and Labeling of Sections	157
13. Specialized Techniques in Anatomy	165
<i>Annexure: Basic Histological Techniques</i>	<i>185</i>

Part 2

Microscopy and Micrometry

14. Microscope and Microscopy: Overview and Historical Account	193
15. Aberrations in Microscope Lenses and their Correction	204
16. Parts of Compound Light Microscope	210
17. Best Performance of Light Microscope	239
18. Special Types of Microscopes and the Principles for their Use	252
19. Different Devices and Methods used for Micrometry	287
<i>Annexure: Basic Microscopy and Micrometry</i>	<i>300</i>

Part 3	Photomicrography
20. General Principles of Photography and Photomicrography	303
21. Photomicrography: Introduction, Methods and Techniques	311
22. Photographic Emulsions and Processing Solutions	323
23. An Overview of Techniques in Photography	331
24. Digital Photomicrography	341
<i>Annexure: Photomicrography</i>	356
<i>Index</i>	357